

## ABSTRACT OF THE INVENTION

Regulation of expression of programmed cell death, including senescence, in plants is achieved by integration of a gene or gene fragment encoding senescence-induced deoxyhypusine synthase, senescence-induced eIF-5A or both into the plant genome in antisense orientation. Plant genes encoding senescence-induced deoxyhypusine synthase and senescence-induced eIF-5A are identified and the nucleotide sequences of each, alone and in combination are used to modify senescence in transgenic plants.

DOCUMENT FILED  
APR 22 1997  
U.S. DEPT. OF COMMERCE  
U.S. PATENT AND TRADEMARK OFFICE